## Astronomy Ranking Task: Apparent and Absolute Magnitude

## Exercise #3

**Description:** The figure below shows five stars (A - E) as they appear in the night sky from Earth. The absolute magnitude number is also provided to the right of each star. Note that all the stars are shown with the same shading to indicate how they would appear in the sky.



_	structions: Rank he night sky.	the bright	ness (from	ı greatest t	o least) of	each star (A – I	E) as it
Ranking Order	r: Greatest 1	2	3	4	5	Least	
Or, the brightne	ess of each star app	ears the s	ame	(indic	ate with cl	neck mark).	
Carefully expla	ain your reasoning	for ranki	ng this wa	y:			
<b>B. Ranking In</b> star (A – E)	structions: Rank	the absolu	ute magnit	ude numb	er (from g	reatest to least)	of each
Ranking Order	r: Greatest 1	2	3	4	5	Least	
Or, the absolute mark).	e magnitude numbe	er of each	star would	d be the sa	me	(indicate wit	h check
Carefully expla	ain your reasoning	for ranki	ng this wa	y:			

C. Ranking Instructions: Rank each star (A – E).	the total	amount of	energy (	from great	est to least) given off by
Ranking Order: Greatest 1	2	3	4	5	Least
Or, the total amount of energy giv check mark).	en off by	each star	would be	the same.	(indicate with
Carefully explain your reasoning	for ranki	ng this wa	ny:		
<b>D. Ranking Instructions:</b> Rank Earth.	the distar	nce (from	farthest to	o closest) o	of each star (A – E) from
Ranking Order: Farthest 1	2	_ 3	4	50	Closest
Or, the distance from Earth to each	h star is tl	ne same.	(i	ndicate wi	th check mark).
Carefully explain your reasoning	for ranki	ng this wa	ıy:		